maintaining the data needed, and c including suggestions for reducing	lection of information is estimated to completing and reviewing the collect this burden, to Washington Headqu uld be aware that notwithstanding ar DMB control number.	ion of information. Send comments arters Services, Directorate for Infor	regarding this burden estimate of mation Operations and Reports	or any other aspect of th , 1215 Jefferson Davis I	is collection of information, Highway, Suite 1204, Arlington
1. REPORT DATE 2012	2. REPORT TYPE N/A		3. DATES COVERED		
4. TITLE AND SUBTITLE				5a. CONTRACT NUMBER	
Shelf-Slope Physical/Biological Response to Monsoonal Wind Forcing and Riverine Inflo - 4D Sampling with Towed Profilers and Autonomous				5b. GRANT NUMBER	
Gliders Off Vietnam				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Marine Environmental Biology University Of Southern California 3616 Trousdale Parkway Los Angeles, CA, USA 90089-0371				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFIC	17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF		
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	SAR	2	RESPONSIBLE PERSON

Report Documentation Page

Form Approved OMB No. 0704-0188

Shelf-Slope Physical/Biological Response to Monsoonal Wind Forcing and Riverine Inflo - 4D Sampling with Towed Profilers and Autonomous Gliders Off Vietnam

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LONG-TERM GOALS

The long term goal is to understand the coupling of bio-optical processes and properties with physical processes in ocean regions of strong physical forcing. Strong physical forcing can include wind forcing, tidal forcing, and significant freshwater buoyancy fluxes.

OBJECTIVES

To study the dynamics of bio-optical properties in the South China Sea and their response to monsoonal winds, river inputs and topography.

Link *in situ* measurements with remote sensing to be able to constrain parameter values and processes using remote observations.

APPROACH

We propose an observational program using ship-based towed profiling, long-endurance gliders and floats focused on:

- 1. Processes that govern circulation and biological variability over the shelf and slope, including the interplay between monsoonal wind forcing, freshwater input and topography.
- 2. Mechanisms that drive cross-slope exchange and communication between the Vietnam shelf and interior South China Sea.
- 3. The potential use of remotely sensed ocean color for characterizing circulation over the shelf and slope.

WORK COMPLETED

We participated in a planning meeting with potential Vietnamese collaborators in Hanoi, Vietnam during Fall 2011. Evaluations were made of the potential collaborations with Vietnamese agencies. Additional planning documents have been reviewed and edited during the year in preparation for the proposed research effort off of the southern coast of Vietnam and into the South China Sea.

RELATED PROJECTS

This is our only funded effort within ONR.